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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/121,211

DATE: 07/29/98
TIME: 16:47:25

Input Set: I121211.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

new format

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1 <110> APPLICANT: Shinohara, Toshimichi
2   Shingh, Dhirendra P.
3   Chylack, Leo T.
4 <120> TITLE OF INVENTION: Lens Epithelial Cell Derived Growth
5   Factor
6 <130> FILE REFERENCE: B0801/7116
7 <140> CURRENT APPLICATION NUMBER: US/09/121,211
8 <141> CURRENT FILING DATE: 1998-07-23
9 <150> EARLIER APPLICATION NUMBER: U.S. 60/053,549
10 <151> EARLIER FILING DATE: 1997-07-23
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25   cgcatacccc cgccgccgca tctctcgcc gcctcccggg cttcggaacc ccggtctcgc      300
26   ccccggaaac atg act cgc gat ttc aaa cct gga gac ctc atc ttc gcc      349
27   Met Thr Arg Asp Phe Lys Pro Gly Asp Leu Ile Phe Ala
28   1 5 10
29   aag atg aaa ggt tat ccc cat tgg cca gct cga gta gac gaa gtt cct      397
30   Lys Met Lys Gly Tyr Pro His Trp Pro Ala Arg Val Asp Glu Val Pro
31   15 20 25
32   gat gga gct gta aag cca ccc aca aac aaa cta ccc att ttc ttt ttt      445
33   Asp Gly Ala Val Lys Pro Pro Thr Asn Lys Leu Pro Ile Phe Phe Phe
34   30 35 40 45
35   gga act cat gag act gct ttt tta gga cca aag gat ata ttt cct tac      493
36   Gly Thr His Glu Thr Ala Phe Leu Gly Pro Lys Asp Ile Phe Pro Tyr
37   50 55 60
38   tca gaa aat aag gaa aag tat ggc aaa cca aat aaa aga aaa ggt ttt      541
39   Ser Glu Asn Lys Glu Lys Tyr Gly Lys Pro Asn Lys Arg Lys Gly Phe
40   65 70 75
41   aat gaa ggt tta tgg gag ata gat aac aat cca aaa gtg aaa ttt tca      589
42   Asn Glu Gly Leu Trp Glu Ile Asp Asn Asn Pro Lys Val Lys Phe Ser
43   80 85 90
44   agt caa cag gca gca act aaa caa tca aat gca tca tct gat gtt gaa      637

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49	110 115 120 125	
50	gaa aaa gcc agc aat gag gat gtg act aaa gca gtt gac ata act act	733
51	Glu Lys Ala Ser Asn Glu Asp Val Thr Lys Ala Val Asp Ile Thr Thr	
52	130 135 140	
53	cca aaa gct gcc aga agg ggg aga aag aga aag gca gaa aaa caa gta	781
54	Pro Lys Ala Ala Arg Arg Gly Arg Lys Arg Lys Ala Glu Lys Gln Val	
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56	gaa act gag gag gca gga gta gtg aca aca gca aca gca tct gtt aat	829
57	Glu Thr Glu Glu Ala Gly Val Val Thr Thr Ala Thr Ala Ser Val Asn	
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60	Leu Lys Val Ser Pro Lys Arg Gly Arg Pro Ala Ala Thr Glu Val Lys	
61	175 180 185	
62	att cca aaa cca aga ggc aga ccc aaa atg gta aaa cag ccc tgt cct	925
63	Ile Pro Lys Pro Arg Gly Arg Pro Lys Met Val Lys Gln Pro Cys Pro	
64	190 195 200 205	
65	tca gag agt gac atc att act gaa gag gac aaa agt aag aaa aag ggg	973
66	Ser Glu Ser Asp Ile Ile Thr Glu Glu Asp Lys Ser Lys Lys Lys Gly	
67	210 215 220	
68	caa gag gaa aaa caa cct aaa aag cag cct aag aag gat gaa gag ggc	1021
69	Gln Glu Glu Lys Gln Pro Lys Lys Gln Pro Lys Lys Asp Glu Glu Gly	
70	225 230 235	
71	cag aag gaa gaa gat aag cca aga aaa gag ccg gat aaa aaa gag ggg	1069
72	Gln Lys Glu Glu Asp Lys Pro Arg Lys Glu Pro Asp Lys Lys Glu Gly	
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74	aag aaa gaa gtt gaa tca aaa agg aaa aat tta gct aaa aca ggg gtt	1117
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77	act tca acc tcc gat tct gaa gaa gaa gga gat gat caa gaa ggt gaa	1165
78	Thr Ser Thr Ser Asp Ser Glu Glu Glu Gly Asp Asp Gln Glu Gly Glu	
79	270 275 280 285	
80	aag aag aga aaa ggt ggg agg aac ttt cag act gct cac aga agg aat	1213
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86	caa gag gaa caa atg gaa act gag cag cag aat aaa gat gaa gga aag	1309
87	Gln Glu Glu Gln Met Glu Thr Glu Gln Gln Asn Lys Asp Glu Gly Lys	
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89	aag cca gaa gtt aag aaa gtg gag aag aag cga gaa aca tca atg gat	1357
90	Lys Pro Glu Val Lys Lys Val Glu Lys Lys Arg Glu Thr Ser Met Asp	
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92	tct cga ctt caa agg ata cat gct gag att aaa aat tca ctc aaa att	1405
93	Ser Arg Leu Gln Arg Ile His Ala Glu Ile Lys Asn Ser Leu Lys Ile	
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95	gat aat ctt gat gtg aac aga tgc att gag gcc ttg gat gaa ctt gct	1453
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98	tca ctt cag gtc aca atg caa caa gct cag aaa cac aca gag atg att	1501
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102	Thr Thr Leu Lys Lys Ile Arg Arg Phe Lys Val Ser Gln Val Ile Met	
103	400 405 410	
104	gaa aag tct aca atg ttg tat aac aag ttt aag aac atg ttc ttg gtt	1597
105	Glu Lys Ser Thr Met Leu Tyr Asn Lys Phe Lys Asn Met Phe Leu Val	
106	415 420 425	
107	ggg gaa gga gat tcc gtg atc acc caa gtg ctg aat aaa tct ctt gct	1645
108	Gly Glu Gly Asp Ser Val Ile Thr Gln Val Leu Asn Lys Ser Leu Ala	
109	430 435 440 445	
110	gaa caa aga cag cat gag gaa gcg aat aaa acc aaa gat caa ggg aag	1693
111	Glu Gln Arg Gln His Glu Glu Ala Asn Lys Thr Lys Asp Gln Gly Lys	
112	450 455 460	
113	aaa ggg cca aac aaa aag cta gag aag gaa caa aca ggg tca aag act	1741
114	Lys Gly Pro Asn Lys Lys Leu Glu Lys Glu Gln Thr Gly Ser Lys Thr	
115	465 470 475	
116	cta aat gga gga tct gat gct caa gat ggt aat cag cca caa cat aac	1789
117	Leu Asn Gly Gly Ser Asp Ala Gln Asp Gly Asn Gln Pro Gln His Asn	
118	480 485 490	
119	ggg gag agc aat gaa gac agc aaa gac aac cat gaa gcc agc acg aag	1837
120	Gly Glu Ser Asn Glu Asp Ser Lys Asp Asn His Glu Ala Ser Thr Lys	
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122	aaa aag cca tcc agt gaa gag aga gag act gaa ata tct ctg aag gat	1885
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124	510 515 520 525	
125	tct aca cta gat aac taggttgaca tacctggaat atagagaaca cttgagaagt	1940
126	Ser Thr Leu Asp Asn	
127	530	
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143	ctatttgaaa tcatggctat attgttttta ttttctagat tccaaaaata caaacactag	2900
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160      20          25          30
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162      35          40          45
163      Glu Thr Ala Phe Leu Gly Pro Lys Asp Ile Phe Pro Tyr Ser Glu Asn
164      50          55          60
165      Lys Glu Lys Tyr Gly Lys Pro Asn Lys Arg Lys Gly Phe Asn Glu Gly
166      65          70          75          80
167      Leu Trp Glu Ile Asp Asn Asn Pro Lys Val Lys Phe Ser Ser Gln Gln
168      85          90          95
169      Ala Ala Thr Lys Gln Ser Asn Ala Ser Ser Asp Val Glu Val Glu Glu
170      100         105         110
171      Lys Glu Thr Ser Val Ser Lys Glu Asp Thr Asp His Glu Glu Lys Ala
172      115         120         125
173      Ser Asn Glu Asp Val Thr Lys Ala Val Asp Ile Thr Thr Pro Lys Ala
174      130         135         140
175      Ala Arg Arg Gly Arg Lys Arg Lys Ala Glu Lys Gln Val Glu Thr Glu
176      145         150         155         160
177      Glu Ala Gly Val Val Thr Thr Ala Thr Ala Ser Val Asn Leu Lys Val
178      165         170         175
179      Ser Pro Lys Arg Gly Arg Pro Ala Ala Thr Glu Val Lys Ile Pro Lys
180      180         185         190
181      Pro Arg Gly Arg Pro Lys Met Val Lys Gln Pro Cys Pro Ser Glu Ser
182      195         200         205
183      Asp Ile Ile Thr Glu Glu Asp Lys Ser Lys Lys Lys Gly Gln Glu Glu
184      210         215         220
185      Lys Gln Pro Lys Lys Gln Pro Lys Lys Asp Glu Glu Gly Gln Lys Glu
186      225         230         235         240
187      Glu Asp Lys Pro Arg Lys Glu Pro Asp Lys Lys Glu Gly Lys Lys Glu
188      245         250         255
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190      260         265         270
191      Ser Asp Ser Glu Glu Glu Gly Asp Gln Glu Gly Glu Lys Lys Arg
192      275         280         285
193      Lys Gly Gly Arg Asn Phe Gln Thr Ala His Arg Arg Asn Met Leu Lys
194      290         295         300

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197      Gln Met Glu Thr Glu Gln Gln Asn Lys Asp Glu Gly Lys Lys Pro Glu
198                               325                               330                               335
199      Val Lys Lys Val Glu Lys Lys Arg Glu Thr Ser Met Asp Ser Arg Leu
200                               340                               345                               350
201      Gln Arg Ile His Ala Glu Ile Lys Asn Ser Leu Lys Ile Asp Asn Leu
202                               355                               360                               365
203      Asp Val Asn Arg Cys Ile Glu Ala Leu Asp Glu Leu Ala Ser Leu Gln
204                               370                               375                               380
205      Val Thr Met Gln Gln Ala Gln Lys His Thr Glu Met Ile Thr Thr Leu
206      385                               390                               395                               400
207      Lys Lys Ile Arg Arg Phe Lys Val Ser Gln Val Ile Met Glu Lys Ser
208                               405                               410                               415
209      Thr Met Leu Tyr Asn Lys Phe Lys Asn Met Phe Leu Val Gly Glu Gly
210                               420                               425                               430
211      Asp Ser Val Ile Thr Gln Val Leu Asn Lys Ser Leu Ala Glu Gln Arg
212      435                               440                               445
213      Gln His Glu Glu Ala Asn Lys Thr Lys Asp Gln Gly Lys Lys Gly Pro
214      450                               455                               460
215      Asn Lys Lys Leu Glu Lys Glu Gln Thr Gly Ser Lys Thr Leu Asn Gly
216      465                               470                               475                               480
217      Gly Ser Asp Ala Gln Asp Gly Asn Gln Pro Gln His Asn Gly Glu Ser
218      485                               490                               495
219      Asn Glu Asp Ser Lys Asp Asn His Glu Ala Ser Thr Lys Lys Lys Pro
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224      530
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VERIFICATION SUMMARY
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Line ? Error/Warning

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